

Sheet 1 of 10

Substitute for form 1449/PTO, based on PTO/SB/08A and 08B		Application Number	10/632,118
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Filing Date	07/31/2003
		First Named Inventor	Wheeler et al.
		Art Unit	1632
		Examiner Name	Joseph T. Woitach
		Attorney Docket Number	99-02

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APR 14 2005

U.S. PATENT DOCUMENTS

Examiner Initial*	Cite No. ¹	Document Number (US-)	Publication Date (MM-DD-YYYY)	Name	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear (or entire document unless noted otherwise)
gw	1	6,258,998	07/10/2001	Damiani et al.	
	2	6,193,647	02/27/2001	Beebe et al.	
	3	6,156,569	12/05/2000	Ponce de Leon, et al.	
	4	6,080,912	06/27/2000	Bremel et al.	
	5	6,025,540	02/15/2000	Hansson	
	6	6,011,197	01/04/2000	Strelchenko et al.	
	7	5,994,619	11/30/1999	Stice et al.	
	8	5,523,226	06/04/1996	Wheeler	
	9	5,057,420	10/15/1991	Massey et al.	
	10	4,994,384	02/19/1991	Prather et al.	
	11	2003/007018 6	04/10/2003	Strelchenko	

FOREIGN PATENT DOCUMENTS

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NON-PATENT LITERATURE DOCUMENTS

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gw	12	Allen et al. (1984). "In vitro Development of Porcine Embryos in Coculture with Endometrial Cell Monolayers or Culture Supernatants," <i>J. Anim. Sci.</i> 59:1657-1661.	
gw	13	Amano et al. (2001) "Full-Term Development of Enucleated Mouse Oocytes	

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<i>Joe T. Woitach</i>		

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GW	13c	"Fused with Embryotic Stem Cells from Different Cell Lines," <i>Reproduction</i> 121:729-733	
	14	Amano, et al. (2001) "Mouse Cloned from Embryonic Stem (ES) Cells Synchronized in Metaphase with Nocodazole," <i>J. Exp. Zoo.</i> 289:139-145	
	15	Archibong et al. (1989) "Development of Porcine Embryos From One- and Two-Cell Stages to Blastocysts in Culture Medium Supplemented with Porcine Oviductal Fluid," <i>Biol. Reprod.</i> 41:1076-1083.	
	16	Balakier et al. (1993) "Experimentally Induced Parthenogenetic Activation of Human Oocytes," <i>Hum. Reprod.</i> 8(5):740-743.	
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	18	Bleck et al. (1998) "Production of Bovine Alpha-Lactalbumin in the Milk of Transgenic Pigs," <i>J. Anim. Sci.</i> 76:3072-3078	
	19	Boston et al. (2001) "Short Communication: Effects of Increased Expression of Alpha-Lactalbumin in Transgenic Mice on Milk Yield and Pup Growth," <i>J. Dairy Sci.</i> 84:620-622	
	20	Bradshaw et al. (1995) "UV Irradiation of Chromosomal DNA and its Effect upon MPF and Meiosis in Mammalian Oocytes," <i>Mol. Reprod. Dev.</i> 41:503-512	
	21	Brem et al. (1985) "Production of Transgenic Mice, Rabbits and Pigs by Microinjection into Pronuclei," <i>Zuchthygiene</i> 20:251-252	
	22	Campbell et al. (1994) "Improved Development to Blastocyst of Ovine Nuclear Transfer Embryos Reconstructed During the Presumptive S-phase of Enucleated Activated Oocytes," <i>Biol. Reprod.</i> 50:1385-1393	
	23	Campbell et al. (1994) "Recent Advances on <i>in vitro</i> Culture and Cloning of Ungulate Embryos," Proceedings of the 5th International Congr. on Genetics Applied to Livestock Production 20:180-187	
	24	Campbell et al. (1997) "Totipotency or Multipotentiality of Cultured Cells: Applications and Progress," <i>Theriogenology</i> 47:63-72	

Examiner Signature	<i>Joe Wallace</i>	Date Considered	4/28/06
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		Art Unit 1632
		Examiner Name Joseph T. Woitach
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DW	25	Campbell et al. (1996) "Sheep Cloned by Nuclear Transfer from a Cultured Cell Line," <i>Nature</i> 380:64-66	
	26	Campbell et al. (1996) "Cell Cycle Co-Ordination in Embryo Cloning by Nuclear Transfer," <i>Rev. Reprod.</i> 1:40-46	
	27	Chastant et al. (1996) "Quantitative Control of Gene Expression by Nucleocytoplasmic Interactions in Early Mouse Embryos: Consequence for Reprogrammation by Nuclear Transfer," <i>Mol. Reprod. Dev.</i> 44:423-432	
	28	Cheong et al. (1993) "Assessment of Cytoplasmic Effects on the Development of Mouse Embryonic Nuclei Transferred to Enucleated Zygotes," <i>Theriogenology</i> 39:451-461	
	29	Cheong et al. (1992) "Development of Mouse Embryonic Nuclei Transferred to Enucleated Oocytes and Zygotes," <i>Jpn. J. Vet. Res.</i> 40:149-159	
	30	Cheong et al. (1993) "Birth of Mice After Transplantation of Early Cell-Cycle-Stage Embryonic Nuclei into Enucleated Oocytes," <i>Biol. Reprod.</i> 48:958-963	
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	32	Cibelli et al. (1997) "Production of Germline Chimeric Bovine Fetuses From Transgenic Embryonic Stem Cells," <i>Theriogenology</i> 47:241 (Abstr.).	
	33	Collas et al. (1994) "Nuclear Transplantation by Microinjection of Inner Cell Mass and Granulosa Cell Nuclei," <i>Mol. Reprod. Dev.</i> 38:264-267	
	34	Collas et al. (1989) "Electrical Activation of Mouse Oocytes," <i>Theriogenology</i> 32:835-844	
	35	Collas et al. (1990) "Factors Affecting the Efficiency of Nuclear Transplantation in the Rabbit Embryo," <i>Biol. Reprod.</i> 43:877-884	
	36	Collas et al. (1991) "Relationship Between Nuclear Remodeling and Development in Nuclear Transplant Rabbit Embryos," <i>Biol. Reprod.</i> 45:455-465	
	37	Cuthbertson, K.S.R. (1983) "Parthenogenetic Activation of Mouse Oocytes <i>in vitro</i> with Ethanol and Benzyl Alcohol," <i>J. Exp. Zool.</i> 226:311-314	
	38	Czolowska et al. (1984) "Behaviour of Thymocyte Nuclei in Nonactivated and	

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<i>JW</i>	<i>38</i>	<i>continued on</i> Activated Mouse Oocytes," <i>J. Cell Sci.</i> 69:19-34	
	39	Delhaise et al. (1995) "Nuclear Transplantation Using Bovine Primordial Germ Cells From Male Fetuses," <i>Reprod. Fertil. Dev.</i> 7:1217-1219	
	40	Didion et al. (1990) "Parthenogenetic Activation of Mouse and Pig Oocytes Matured <i>in vitro</i> ," <i>Theriogenology</i> 33:1165-1175	
	41	Du et al. (1995) "Nuclear Transfer of Putative Rabbit Embryonic Stem Cells Leads to Normal Blastocyst Development," <i>J. Reprod. Fertil.</i> 104:219-223	
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	43	Eberhardt et al. (1994) "Oviductal Fluid and Growth Factors Failed to Enhance Development of Porcine Embryos," <i>Theriogenology</i> 41:1163-1172	
	44	First et al. (1992) "Use of <i>in vitro</i> Matured Oocytes 24 hr of Age in Bovine Nuclear Transfer," <i>Theriogenology</i> 37:211 (Abstr.)	
	45	Fulka et al. (1996) "Nuclear Transplantation in Mammals: Remodeling of Transplanted Nuclei Under the Influence of Maturation Promoting Factor," <i>BioEssays</i> 18:835-840	
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	47	Fulka et al. (1993) "Noninvasive Chemical Enucleation of Mouse Oocytes," <i>Mol. Reprod. Dev.</i> 34:427-430	
	48	Gerfen et al. (1995) "Isolation of Embryonic Cell-lines from Porcine Blastocysts," <i>Anim. Biotechnology</i> 6:1-14	
	49	Grocholova et al. (1997) "The Protein Phosphatase Inhibitor Okadaic Acid Inhibits Exit from Metaphase II in Parthenogenetically Activated Pig Oocytes," <i>J. Exp. Zool.</i> 277:49-56	
	50	Hagen et al. (1991) "Response of Porcine Oocytes to Electrical and Chemical Activation During Maturation <i>in vitro</i> ," <i>Mol. Reprod. Dev.</i> 28:70-73	
	51	Hammer et al. (1985) "Production of Transgenic Rabbits, Sheep and Pigs by Microinjection," <i>Nature (Lond.)</i> 315:680-683	
	52	Howlett et al. (1987) "Nuclear Cytoplasmic Interactions Following Nuclear Transplantation in Mouse Embryos," <i>Development</i> 101:915-923	

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JKW	53	Illmensee et al. (1981) "Nuclear Transplantation in <i>Mus musculus</i> : Developmental Potential of Nuclei from Preimplantation Embryos," <i>Cell</i> 23:9-18	
	54	Kashiwazaki et al. (1992) "Production of Chimeric Pigs by the Blastocyst Injection Method," <i>Vet. Rec.</i> 130:186-187	
	55	Keefer et al. (1992) "In vitro Culture of Bovine Nucleus Transfer Embryos," <i>Biol. Reprod.</i> 46 (Suppl. 1):166 (Abstr.).	
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	57	Kono et al. (1991) "Production of Identical Twin and Triplet Mice by Nuclear Transplantation," <i>J. Exp. Zool.</i> 257:214-219	
	58	Kono et al. (1991) "Development of Enucleated Mouse Oocytes Reconstituted with Embryonic Nuclei," <i>J. Reprod. Fertil.</i> 93:165-172	
	59	Kono et al. (1992) "Development of Mouse Enucleated Oocytes Receiving a Nucleus from Different Stages of the Second Cell cycle," <i>J. Reprod. Fertil.</i> 94:481-487	
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	62	Kwon et al. (1996) "Production of Identical Sextuplet Mice by Transferring Metaphase Nuclei From Four-Cell Embryos," <i>Proc. Natl. Acad. Sci. USA</i> 93:13010-13013	
	63	Laurincik et al. (1994) "Differences in Pronucleus Formation and First Cleavage Following <i>in vitro</i> Fertilization Between Pig Oocytes Matured <i>in vivo</i> and <i>in vitro</i> ," <i>J. Reprod. Fertil.</i> 102:277-284	
	64	Laurincik et al. (1994) "Ovulation, Fertilization and Pronucleus Development in Superovulated Gilts," <i>Theriogenology</i> 41:447-452	
	65	Lavoir et al. (1997) "Development of Bovine Nuclear Transfer Embryos Made with Oogonia," <i>Biol. Reprod.</i> 56:194-199	

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SW	66	Lee et al. (2002) "Cloned Zebrafish by Nuclear Transfer from Long-Term-Cultured Cells," <i>Nat. Biotechnol.</i> 20:795-799	
	67	Lee et al. (1993) "Effects of Fusion Medium, Voltage and Micromanipulation on Activation of Pig Oocytes and Blastomere Development," <i>Theriogenology</i> 39:257 (Abstr.).	
	68	Machaty et al. (1995) "Parthenogenetic Activation of Porcine Oocytes with Guanosine-5'-O-(3'-thiorthophosphate)," <i>Biol. Reprod.</i> 52:753-758	
	69	McGrath et al. (1984) "Inability of Mouse Blastomere Nuclei Transferred to Enucleated Zygote to Support Development <i>in vitro</i> ," <i>Science</i> 226:1317-1319	
	70	Meyen et al. (1989) "Development of Pig Blastocysts <i>in vitro</i> is Altered by Serum, Bovine Serum Albumin and Amino Acids and Vitamins," <i>Theriogenology</i> 31:463-471	
	71	Minamihashi et al. (1993) "Bovine Parthenogenetic Blastocysts Following <i>in vitro</i> Maturation and Oocyte Activation with Ethanol," <i>Theriogenology</i> 40:63-76	
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	75	Nagai, T. (1987) "Parthenogenetic Activation of Cattle Follicular Oocytes <i>in vitro</i> with Ethanol," <i>Gamete Res.</i> 16:243-249	
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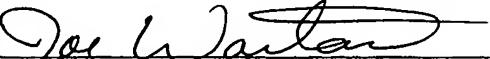
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SJW	78	Niwa, K. (1993) "Effectiveness of <i>in vitro</i> Maturation and <i>in vitro</i> Fertilization Techniques in Pigs," <i>J. Reprod. Fertil. Suppl.</i> 48:49-59	
	79	Noble et al. (2002) "Lactational Performance of First-Parity Transgenic Gilts Expressing Bovine Alpha-Lactalbumin in their Milk," <i>J. Anim. Sci.</i> 80:1090-1096	
	80	Notarianni et al. (1991) "Derivation of Pluripotent, Embryonic Cell Lines from the Pig and Sheep," <i>J. Reprod. Fertil. Suppl.</i> 43:255-260	
	81	Nussbaum et al. (1995) "Differential Effects of Protein Synthesis Inhibitors on Porcine Oocyte Activation," <i>Mol. Reprod. Dev.</i> 41:70-75	
	82	Ogura et al. (2000) "Birth of Mice After Nuclear Transfer by Electrofusion Using Tail Tip Cells," <i>Mol. Repro Dev.</i> 57:55-59	
	83	Otaegui et al. (1994) "Nuclear Transfer of 4-cell Mouse Embryos: Synchronization with Cytoplasm Partially Overcomes Nuclear Donor Cell-Cycle Effect," <i>J. Reprod. Fertil. Abstr. Series No.</i> 13:24 (Abstr.).	
	84	Otaegui et al. (1994) "Transfer of Nuclei from 8-cell Stage Mouse Embryos Following Use of Nocodazole to Control the Cell Cycle," <i>Mol. Reprod. Dev.</i> 39:147-152	
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	86	Petr et al. (1996) "Activation of <i>in vitro</i> Matured Pig Oocytes by Combined Treatment of Ethanol and Cycloheximide," <i>Theriogenology</i> 45:1473-1478	
	87	Petters et al. (1993) "Culture of Pig Embryos," <i>J. Reprod. Fertil. Suppl.</i> 48:61-73	
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	90	Prather et al. (1987) "Nuclear Transplantation in the Bovine Embryo: Assessment of Donor Nuclei and Recipient Oocyte," <i>Biol. Reprod.</i> 37:859-866	
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JW	93	Prather et al. (1990) "Nuclear Transfer in Mammalian Embryos," <i>Int. Rev. Cytol.</i> 120:169-190	
	94	Prather et al. (1991) "Artificial Activation of Porcine Oocytes Matured <i>in vitro</i> ," <i>Mol. Reprod. Dev.</i> 28:405-409	
	95	Prochazka et al. (1995) "Behaviour of Blastomere Nuclei Fused to Mouse Oocytes is Affected by Oocyte Enucleation and Age," <i>Reprod. Nutr. Dev.</i> 35:695-701	
	96	Reed et al. (1992) "In vitro Culture of Pig Embryos," <i>Theriogenology</i> 37:95-109	
	97	Rickards et al. (1993) "Okadaic Acid Increases Rate of Activation of Electrically Activated <i>in vitro</i> Matured Porcine Oocytes," <i>Theriogenology</i> 39:296 (Abstr.).	
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Examiner Signature		Date Considered	4/28/06
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¹Applicant's unique citation designation number (optional).

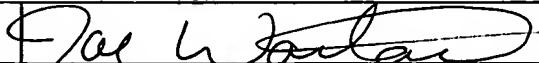
²Applicant is to place a check mark here or "x" if English language Translation is attached.

Sheet 9 of 10

Substitute for form 1449/PTO, based on PTO/SB/08A and 08B		Application Number	10/632,118
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Filing Date	07/31/2003
		First Named Inventor	Wheeler et al.
		Art Unit	1632
		Examiner Name	Joseph T. Woitach
		Attorney Docket Number	99-02

GWS 4/14/2005

Examiner Initial*	Cite No. ¹	REFERENCE Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
9/10	106	Schoonjans et al. (1996) "Pluripotential Rabbit Embryonic Stem (ES) Cells are Capable of Forming Overt Coat Color Chimeras Following Injection into Blastocysts," <i>Mol. Reprod. Dev.</i> 45:439-443	
	107	Shi et al. (1993) "Synergistic Effect of A23187 and Cycloheximide Allows Effective Activation of Freshly Matured Bovine Oocytes," <i>Theriogenology</i> 39:309 (Abstr.)	
	108	Shin et al. (2002) "A Cat Cloned by Nuclear Transplantation," <i>Nature</i> 415:859	
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	114	Stice et al. (1996) "Pluripotent Bovine Embryonic Cell Lines Direct Embryonic Development Following Nuclear Transfer," <i>Biol. Reprod.</i> 54:100-110	
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Examiner Signature 	Date Considered	4/26/04
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Sheet 10 of 10

Substitute for form 1449/PTO, based on PTO/SB/08A and 08B		Application Number	10/632,118
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Filing Date	07/31/2003
		First Named Inventor	Wheeler et al.
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		Examiner Name	Joseph T. Woitach
		Attorney Docket Number	99-02

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Examiner Initial*	Cite No. ¹	REFERENCE Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
7K	119	Terlouw et al. (1993) "Pig Oocyte Activation and Processing of Transplanted Nuclei," <i>Theriogenology</i> 39:329 (Abstr.).	
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	124	Wheeler et al. (1995) "The Use of Embryonic Stem Cells in the Production of Transgenic Livestock," <i>Embryo Transfer Newsletter</i> 13:20-25	
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	126	White, B.R. (2001) "Transgenic Technology and Applications in Swine" <i>Theriogenology</i> 56(8):1354-1369	
	127	Wolf et al. (1999) "Nuclear Transfer in the Rhesus Monkey: Practical and Basic Implications," <i>Biol. Repro.</i> 60:199-204	
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	132	Yang et al. (1994) "Synergistic Effect of Ethanol and Cycloheximide on Activation of Freshly Matured Bovine Oocytes," <i>Theriogenology</i> 41:395-403	
	133	Youngs et al. (1993) "Investigations into the Control of Litter Size in Swine. I. Comparative Studies on <i>in vitro</i> Development of Meishan and Yorkshire Preimplantation Embryos. <i>J. Anim. Sci.</i> 71:1561-1565	

Examiner Signature		Date Considered	4/26/05
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